

NAVSEA
STANDARD ITEM

FY-01

ITEM NO: 009-88
DATE: 23 SEP 1999
CATEGORY: I

1. SCOPE:

1.1 Title: Tanks, Spaces, and Piping; certify

2. REFERENCES:

- a. Standard Items
- b. 29 CFR Part 1915, OSHA
- c. National Fire Protection Association Standard 312
- d. National Fire Protection Association Standard 306
- e. S9086-T8-STM-010/CH-593, Pollution Control
- f. Compressed Gas Association Commodity Specification for Air, Pamphlet G-7.1-1989 (American National Standard Commodity Specification for Air, ANSI Z 86.1-1973)

3. REQUIREMENTS:

3.1 Certify "Safe for Workers" and/or "Safe for Hot Work" in accordance with 2.b through 2.d and using 2.e and 2.f for guidance, any tank, space, or piping systems, including adjacent tanks, spaces, or piping, where the scope of repairs will result in a need for certification during the performance of this Job Order.

3.1.1 Submit a list of tanks or spaces to be certified to the SUPERVISOR at least 24 hours prior to commencement of work.

(I)(G) "INSPECT SAFETY REQUIREMENTS PRIOR TO ENTRY"

3.2 Prior to entering, working in tanks, ***or working in spaces adjacent to or within spaces containing tanks that are to be opened or otherwise breached,*** or on piping ***that is disturbed*** which may contain Mogas or sewage:

3.2.1 Accomplish the requirements of 009-09 of 2.a for a step-by-step description of how the certification process will be accomplished, including personnel requirements, grounding of equipment, removal of product,

fire protection/fire prevention, protective clothing requirements, deinerting and control of other hazards such as benzene, carbon dioxide, and lead.

3.2.2 Deliver notification to the SUPERVISOR and ship's Commanding Officer at least four hours prior to the planned opening of tank manhole covers.

3.2.2.1 Deliver notification of opening of tank manhole covers planned over a weekend or Monday following that weekend to the SUPERVISOR and Commanding Officer no later than 0900 on the Friday immediately preceding that weekend.

3.2.2.2 Deliver notification to the SUPERVISOR and Commanding Officer of opening of tank manhole covers planned on a federal holiday and on the day following the federal holiday no later than 0900 of the last working day preceding the federal holiday.

3.2.3 A National Fire Protection Association (NFPA) Certified Marine Chemist shall be present during the opening of sewage or Mogas tanks. The Marine Chemist shall personally certify all spaces for initial entry. Accomplish the requirements of 2.b for tanks, spaces, or piping that have the potential to become Immediately Dangerous to Life or Health (IDLH).

3.2.3.1 National Institute for Occupational Safety and Health/Mine Safety and Health Administration (NIOSH/MSHA) approved combination supplied-air respirator operated in a pressure-demand mode. The source of breathing air for the supplied-air respirators shall be either a compressor capable of delivering an adequate quantity of breathing air at the pressure required by the respirators used and meeting the requirements of the specification for Grade D breathing air described in 2.f, or a bank of cylinders cascading to provide at least four to six hours of breathing air meeting the above specifications at the pressure needed by the respirators used.

3.2.3.2 NIOSH/MSHA approved self-contained breathing apparatus that always maintains positive pressure inside the respirator inlet covering. For entry into an IDLH atmosphere, the self-contained breathing apparatus must have at least a 15-minute air supply. For escape from an atmosphere that may become IDLH, a 10-minute self-contained air supply may be adequate depending upon ease of exit from spaces should the air supply fail.

3.2.3.3 All personnel required to use the respiratory equipment mentioned above shall receive thorough and frequent training in the actual use of the respirator equipment including operation of all controls and breathing under pressure-demand conditions.

3.2.3.4 An adequate and attended life line shall be utilized for each employee who must enter the IDLH or potentially IDLH atmosphere.

3.2.4 Station a rescue person outside each sewage or Mogas tank being worked. Rescue personnel shall wear the same type equipment and have the same training as described in 2.b.

3.2.5 Ventilation suckers, suction ducting, tools, flashlights, and other equipment shall be non-sparking type. All personnel working in the tank shall be provided with oxygen and combustible gas meters.

4. NOTES:

4.1 Booklet of General Plans and Tank Sounding Tables are available for review at the office of the SUPERVISOR.

4.2 For the purpose of this item, the term "tank or spaces" includes voids, cofferdams, and inaccessible or confined areas.